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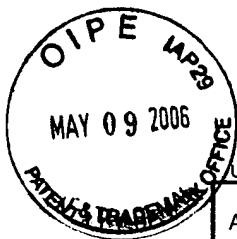
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	Filing Date	November 12, 2003
	First Named Inventor	FENTEANY
	Art Unit	1617
	Examiner Name	Not Yet Assigned
Total Number of Pages in This Submission	Attorney Docket Number	0042697.00137US8

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Firm Name	WILMER CUTLER PICKERING HALE AND DORR LLP		
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Printed name	Mary J. Edwards		
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Docket No.: 0042697.00137US8
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
FENTEANY et al.

Application No.: 10/706877

Confirmation No.: 5816

Filed: November 12, 2003

Art Unit: 1617

For: LACTACYSTIN ANALOGS

Examiner: Not Yet Assigned

Commissioner for Patents
P.O. Box 1450
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INFORMATION DISCLOSURE STATEMENT (IDS)

Dear Sir:

This Information Disclosure Statement is being filed prior to the mailing date of a first Office Action on the merits. No fee is required.

This application is a continuation of 09/924,993 filed August 8, 2001 (now Patent No. 6,838,477), which is a continuation of 08/945,092 filed January 26, 1998 (now Patent No. 6,645,999), which is a 371 of PCT/US96/05072 filed April 12, 1996, which is a continuation-in-part of 08/421,583 filed April 12, 1995 (now Patent No. 6,335,358).

Copies of the references listed below are enclosed for the Examiner's consideration. The remaining references listed on the enclosed Form PTO SB-08 have been disclosed in the prior related applications. Pursuant to 37 C.F.R. § 1.98(d), copies of the previously cited references are not enclosed.

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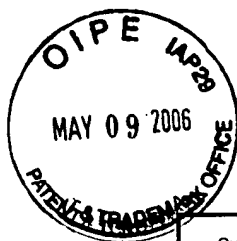
Applicants request that the Examiner initial and return a copy of the enclosed Form PTO SB-08 with the next communication.

Dated: May 4, 2006

Respectfully submitted,

By 
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Application Number	10/706877-Conf. #5816	
			Filing Date	November 12, 2003	
			First Named Inventor	FENTEANY	
			Art Unit	N/A	
			Examiner Name	Not Yet Assigned	
Sheet	1	of	6	Attorney Docket Number	0042697.00137US8

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA*	US-4,962,204	10-09-1990	Wambach	
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Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	BA	JP-60 135469	07-18-1985	Kawaguchi et al.	

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	CA	AIKLAY, I. et al., "In vivo Stimulation of IxB Phosphorylation is not Sufficient to Activate NF-κB", <i>Mol. Cell. Biol.</i> , Vol. 15, No. 3, pp. 1294-1301, March 1995	
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CE1	EL ACHQAR et al., (CA 110:193343), 1989 (Abstract Only)		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Application Number	10/706877-Conf. #5816	
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			Art Unit	N/A	
			Examiner Name	Not Yet Assigned	
Sheet	3	of	6	Attorney Docket Number	0042697.00137US8

CF1	EVANS, D. A. et al., Asymmetric Alkylation Reactions of Chiral Imide Enolates. A Practical Approach to the Enantioselective Synthesis of α -Substituted Carboxylic Acid Derivatives", <i>J. Amer. Chem. Soc.</i> , Vol. 104, pp. 1737-1739, 1982	
CG1	EVANS, D. A. et al., "Enantioselective Aldol Condensations, 2. Erythro-Selective Chiral Aldol Condensations via Boron Enolates", <i>J. Amer. Chem. Soc.</i> , Vol. 103, pp. 2127-2129, 1981	
CH1	EVANS et al., "Electrophilic Azide Transfer to Chiral Enolates. A General Approach to the Asymmetric Synthesis of α -Amino Acids", <i>J. Am. Chem.</i> , Vol. 109, pp. 6881-6883, 1987	
CI1	FAN et al., "Generation of p50 subunit of NF- κ B by processing of p105 through an ATP-dependent pathway", <i>Letters to Nature</i> , Vol. 354, pp. 395-398, 5 December 1991	
CJ1	FEIL et al., (CA 80:71067), 1974 (Abstract Only)	
CK1	FENTEANY et al., "A β -Lactone related to Lactacystin Induces Neurite Outgrowth in a Neuroblastoma Cell Line and Inhibits Cell ...", <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 91, pp. 3358-3362, 1994	
CL1	FENTEANY et al., "Inhibition of Proteasome Activities and Subunit-Specific Amino-Terminal Threonine Modification by Lactacystin", <i>Science</i> , Vol. 268, pp. 726-731, 1995	
CM1	FIGUEIREDO-PEREIRA et al., "A New Inhibitor of the Chymotrypsin-Like Activity of the Multicatalytic Proteinase Complex (20s Proteasome)...", <i>J. of Neurochemistry</i> , Vol. 63, No. 4, pp. 1578-1581, 1994	
CN1	FIGUEIREDO-PEREIRA et al., "Comparison of the Effect of Calpain Inhibitors on Two Extralysosomal Proteinases: The Multicatalytic Proteinase Complex and m-Calpain", <i>J. of Neurochemistry</i> , Vol. 62, No. 5, pp. 1989-1994, 1994	
CO1	FRANCESE, C. et al., "Synthesis of Trifluoromethyl-substituted Methanois: a Barbier Procedure under Pressure", <i>J. Chem. Soc., Chem. Commun.</i> , pp. 642-643, 1987	
CP1	GALLINA et al. (CA 71:113238), 1969 (Abstract Only)	
CQ1	GALLINA et al., (CA 76:139654) 1972 (Abstract Only)	
CR1	GALLINA et al. (CA 76:4136) 1972 (Abstract Only)	
CS1	GANOTH et al., "A Multicomponent System that Degrades Proteins Conjugated to Ubiquitin", <i>J. Biol. Chem.</i> , Vol. 263, No. 25, pp. 12412-12419, 1988	
CT1	GASSMAN et al., "Sulfenylation of Amides", <i>J. Org. Chem.</i> , Vol. 42, No. 20, pp. 3236-3240, 1977	
CU1	GAYLORD, J., <i>Reduction with Complex Metal Hydrides</i> , pp. 544-636, 1956	
CV1	GRIFFITH et al. (CA 85:430000), 1976 (Abstract Only)	
CW1	GRIFFITH et al. (CA 87:163362), 1977 (Abstract Only)	
CX1	HAEUSLER (CA 95:151123), 1981 (Abstract Only)	
CY1	HAMADA et al., "Stereoselective Total Synthesis of AI-77-B, a Gastroprotective Substance from <i>Bacillus Pumilus</i> ", <i>J. American Chemical Society</i> , Vol. 111, No. 4, pp. 1524-1525, 1989	
CZ1	HANSSON, C. et al., "The Preparation of Enamines by Addition of Grignard Reagents to <i>N,N</i> -Dialkylformamides", <i>J. Org. Chem.</i> , Vol. 38, No. 17, pp. 3074-3076, 1973	
CA2	HANESSIAN, S. et al., "Heteroatom-Assisted Substitution of Acyclic Secondary Tosylates with Lithium Dialkylcuprates: An Expedient Route to Stereochemically Defined Deoxypropionate and Related Biosynthetic Subunits", <i>J. Org. Chem.</i> , Vol. 54, No. 25, pp. 5831-5833, 8 December 1989	
CB2	HANESSIAN et al., "Synthesis of a Conformationally Constrained Analog of <i>N</i> -Acetylmuramyl Dipeptide (MDP)", <i>Synlett</i> , Vol. 10., p. 222-224, 1991	
CC2	HARUTA et al., "A Rapamycin-Sensitive Pathway Down-Regulates Insulin Signaling via Phosphorylation and Proteasomal Degradation of Insulin Receptor Substrate-1", <i>Molecular Endocrinology</i> , Vol. 14, No. 6, pp. 783-794	
CD2	HATANAKA (CA 71:56785), 1969 (Abstract Only)	
CE2	HATANAKA (CA 86:40228), 1977 (Abstract Only)	

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CG2	HERDEIS et al., "Chiral Pool Synthesis of Trans-(2S, 3S)-3-Hydroxyproline and Castanodiol from S-Pyrogutamic Acid", <i>Tetrahedron: Asymmetry</i> , Vol 5, No. 1, pp. 119-128, 1994
CH2	HOERRMAN (CA 105:120768) 1986 (Abstract Only)
CI2	HOUGH et al., "Purification of Two High Molecular Weight Proteases from Rabbit Reticulocyte Lysate", <i>J. Biol. Chem.</i> , Vol. 262, No. 17, pp. 8303-8313, 15 June 1987
CJ2	ITO et al. (CA 68:40037), 1968 (Abstract Only)
CK2	IWASKI et al. (CA 71:61270), 1969 (Abstract Only)
CL2	JAMISON, T. F. et al., "Cobalt-Mediated Total Synthesis of (+)-Epoxydictymene", <i>J. Am. Chem. Soc.</i> , Vol. 116, pp. 5505-5506, 1994
CM2	JEFFERS et al., "Degradation of the Met Tyrosine Kinase Receptor by the Ubiquitin-Proteasome Pathway", <i>Molecular and Cellular Biology</i> , Vol. 17, No. 2, pp. 799-808, February 1997
CN2	JOHNSON, C. R., "The Utilization of Sulfoximines and Derivatives as Reagents for Organic Synthesis", <i>Acc. Chem. Res.</i> , Vol. 6, pp. 341-347, 1973
CO2	JURCZAK et al., "Highly Stereoselective Synthesis of CIS 92R, 3S)-3-Hydroxyproline", <i>Tetrahedron Letters</i> , Vol. 34, No. 44, pp. 7107-7110, 1993
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CR2	KAMITANI et al. (CA 72:90874), 1970 (Abstract Only)
CS2	KAMIYA (CA 71:81248), 1969 (Abstract Only)
CT2	KARA-MURZA (CA 81:163926), 1974 (Abstract Only)
CU2	KATSURA et al. (CA 117:131063), 1992 (Abstract Only)
CV2	KATZ et al. (CA 82:134374), 1975 (Abstract Only)
CW2	KAWAGUCHI et al. (CA 104:10651), 1986
CX2	KEFALIDES et al. (CA 84:119077), 1976 (Abstract Only)
CY2	KHOMUTOV et al. (CA 66:76280), 1967 (Abstract Only)
CZ2	KLAUSNER, Y. S. et al., "Coupling Reagents in Peptide Synthesis", <i>Synthesis</i> , pp. 453-463, 1972
CA3	KOGOORI et al (CA 119:117095), 1993 (Abstract Only)
CB3	KOJIMA et al., "Two-Way Cleavage of Beta-Amyloid Protein Precursor by Multicatalytic Proteinase", <i>FEBS Letters</i> , Vol. 304, No. 1, pp. 57-60, June 1992
CC3	KOSUGE et al., "Lactacystin, A Novel Microbial Metabolite, induces Neuritogenesis of Neuroblastoma Cells", <i>The Journal of Antibiotics</i> , pp. 113-116, January 1991
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CG3	LUBEC et al. (CA 120:124626) 14 March 1994 (Abstract Only)
CH3	LUBELL et al., <i>N</i> -(9-Phenylfluoren-9-yl)- α -amino Ketones and <i>N</i> -(9-Phenylfluoren-9-yl)- α -amino Aldehydes as Chiral Educs for the Synthesis of Optically Pure 4-Alkyl-3-hydroxy-2-amino Acids. Synthesis of the C-9 Amino Acid MeBmt Present in Cyclosporin", <i>J. Org. Chem.</i> , Vol. 55, pp. 3511-3522, 1990

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CI3	MARCH, "Addition to Carbon-Carbon Multiple Bonds", <i>Advanced Organic Chemistry</i> , pp. 826-877, 1992	
CJ3	MASON et al., "Proteasomes: The Changing Face of Proteolysis", <i>Chemistry & Biology</i> , Vol. 1, pp. 197-199, 1994	
CK3	MIYAMOTO S. et al., "Tumor Necrosis Factor Alpha-Induced Phosphorylation of I Kappa B Alpha is A Signal for its Degradation but not Dissociation from NF- κ B", <i>Proc. Natl. Acad. Sci USA</i> , Vol. 91, No. 26, pp. 12740-12744, December 1994	
CL3	MCMURRY, J. E. et al., "A Method for the Regiospecific Synthesis of Enol Triflates by Enolate Trapping", <i>Tetrahedron Letters</i> , Vol. 24, No. 10, pp. 979-982, 1983	
CM3	NAKAGAWA et al., "Biosynthesis of Lactacystin. Origin of the Carbons and Stereospecific NMR Assignment of the Two Diastereotopic Methyl Groups", <i>Tetrahedron Letters</i> , Vol. 35, No. 28, pp. 5009-5012, 1994	
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CO3	NOZOE et al. (CA 112:36460), 1990 (Abstract Only)	
CP3	OMURA, S. et al., "Lactacystin, A Novel Microbial Metabolite, Induces Neuritogenesis of Neuroblastoma Cells", (<i>Communication to the Editor</i>), <i>The Journal of Antibiotics</i> , Vol. 44, No. 1, pp. 113-116, Jan. 1991	
CQ3	ORLOWSKI et al., "Evidence for the Presence of Five Distinct Proteolytic Components in the Pituitary Multicatalytic Proteinase Complex...", <i>Biochemistry</i> , Vol. 32, pp. 1563-1572, 1993	
CR3	<i>Pages of Calbiochem® Catalog for Clasto-Lactacystin β-Lactone (Cat. No. 426102) and Synthetic Lactacystin (Cat. No. 426100) as printed on 8 June 2003</i>	
CS3	PALOMBELLA et al., "The Ubiquitin-Proteasome Pathway is Required for Processing the NF-KB1 Precursors Protein and the Activation of NF-KB", <i>Cell</i> , Vol. 78, pp. 773-785, 1994	
CT3	PENROSE and MCBRIDE, "Proteasome-Mediated Degradation of the Papillomavirus E2-TA Protein is Regulated by Phosphorylation and Can Modulate Viral Genome Copy Number", <i>J. Virology</i> , Vol. 74, No. 13, pp. 6031-6038, July 2000	
CU3	PETASIS et al., "The Synthesis of Carbocyclic Eight-Membered Rings", <i>Tetrahedron Letters</i> , Vol. 48, No. 28, pp. 5757-5821, 1992	
CV3	PETERS, J., "Proteasomes: Protein Degradation Machines of the Cell", <i>TIBS</i> , pp. 377-382, 1994	
CW3	PHILIP et al. (CA 87:102614), 1977 (Abstract Only)	
CX3	PHILIP et al. (CA 87:68602), 1977 (Abstract Only)	
CY3	PINE et al., "Carbonyl Methylenation Using a Titanium-Aluminum (Tebbe) Complex", <i>J. Org. Chem.</i> , Vol. 50, pp. 1212-1216, 1985	
CZ3	PURVIS et al. (CA 111:53899), 1989 (Abstract Only)	
CA4	RYAN et al. (CA 97:163506), 1982 (Abstract Only)	
CB4	RZEPECKI et al. (CA 116:148544), 1991 (Abstract Only)	
CC4	SAVORY et al., "Reaction of Proteasomes with Peptidylchloromethanes and Peptidylhydrazomethanes", <i>J. Biochem.</i> , Vol. 296, pp. 601-605, 1993	
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CE4	SCHROCK, R. R., "Multiple Metal-Carbon Bonds. 5. The Reaction of Niobium and Tantalum Neopentylidene Complexes with the Carbonyl Function", <i>J. Amer. Chem. Soc.</i> , pp. 5399-5400, 23 April 1976	
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CG4	SPERANZA et al., "Inhibition of Proteasome Activity Strongly Affects Kiwifruit Pollen Germination. Involvement of the Ubiquitin/Proteasome Pathway as Major Regulator", <i>Plant Physiology</i> , Vol. 126, pp. 1150-1161, July 2001	
CH4	STANDAERT et al., "Abstract", <i>Academic Development Program, Symposium, Merck</i>	
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		Research Laboratories, Rahway, New Jersey, October 1993	
CI4	STANDAERT et al., "Poster Session", <i>Academic Development Symposium, Merck Research Laboratories, Rahway, New Jersey, October 1993</i>		
CJ4	STELIOU et al., "Tin-Assisted Sulfuration: A Highly Potent New Method for the Conversion of Carbonyl Units into Their Corresponding Thiocarbonyl Analogues", <i>J. Amer. Chem. Soc.</i> , Vol. 104, pp. 3104-3106, 1982		
CK4	STILLE, J. K., "The Palladium-Catalyzed Cross-Coupling Reactions of Organotin Reagents with Organic Electrophiles", <i>Angew Chem. Int. Ed. Engl.</i> , Vol. 25, pp. 508-524, 1986		
CL4	STOTTER et al., "α-Halocarbonyl Compounds. II. A Position-Specific Preparation of α-Bromo Ketones by Bromination of Lithium Enolates. A Position-Specific Introduction of α,β-Unsaturation into Unsymmetrical Ketones", <i>J. Org. Chem.</i> , Vol. 38, No. 14, pp. 2576-2578, 1973		
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CO4	THANING et al. (CA 117:7757), 1992 (Abstract Only)		
CP4	THANOS et al., "NF-κB: A Lesson in Family Values", <i>Cell</i> , Vol. 80, No. 4, pp. 529-532, 24 February 1995		
CQ4	THOTTATHIL et al., "Conversion of L-pyrogutamic Acid to 4-Alkyl-Substituted L-Prolines. The Synthesis of Trans-4-Cyclohexyl-L-Proline", <i>J. Organic Chemistry</i> , Vol 51, pp. 3140-3143, 1986		
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CT4	TSUBUKI et al., "Purification and Characterization of a Z-Leu-Leu-Leu-MCA Degrading Protease Expected to Regulate Neurite Formation...", <i>Biochem. & Biophys. Res. Comm.</i> , Vol. 196, No. 3, pp. 1995-1201, 1993		
CU4	TURNER, B., "Chapter 2: 2,3-Dichloro-5, 6-Dicyanobenzoquinone (DDQ)", <i>Synth. Reagents</i> , Chapter 2 pp. 194-224, 1977		
CV4	UNO et al., "Total Synthesis of (+)-Lactacystin from (R)-Glutamate", <i>J. Am. Chem. Soc.</i> , Vol. 116, pp. 2139-2140, 1994		
CW4	VAN DER WERF et al. (CA 83:174482), 1975 (Abstract Only)		
CX4	VINITSKY et al., "Inhibition of the Chymotrypsin-like Activity of the Pituitary Multicatalytic Proteinase Complex", <i>Biochemistry</i> , Vol. 31, pp. 9421-9428, 1992		
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CB5	YU et al. (CA 115:189747), 1991 (Abstract Only)		
CC5	ZORETIC et al., "Sulfonylation and Selenenylation of Lactams", <i>J. Org. Chem.</i> , Vol. 41, No. 22, pp. 3587-3589, 1976		

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